

HALLIBURTON

ANNULAR HOLE VOLUME LOG 5 1/2" CASING

COMPANY	RUSSELL OIL, INC.		
WELL	ROHLEDER TRUST #28-1		
FIELD/BLOCK	WILDCAT		
COUNTY	LOGAN		
STATE	KANSAS		
Permanent Datum	GL	Elev. 3079.0 ft	
Log measured from	KB	5.0 ft above perm. Datum	
Drilling measured from	KB		
Date	05-May-19		
Run No.	1		
Depth - Driller	4770.0 ft		
Depth - Logger	4770.0 ft		
Bottom - Logged Interval	4760		
Top - Logged Interval	312		
Casing - Driller	8.625 in @ 312.0 ft		
Casing - Logger	312.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	Water Based Mud		
Density	9.20 g/cc	65.00 s/qt	
PH	11.00 pH	6.2 cphm	
Source of Sample	FLOWLINE		
Rm @ Meas. Temperature	1.04 ohmm @ 74.00 degF		
Rmf @ Meas. Temperature	0.83 ohmm @ 72.00 degF		
Rmc @ Meas. Temperature	1.22 ohmm @ 72.00 degF		
Source Rmf	Rmc	MEAS	
Rm @ BHT	0.60 ohmm @ 133.0 degF		
Time Since Circulation	22:00 hr		
Time on Bottom	05-May-19 01:46		
Max. Rec. Temperature	133.00 degF @ 4770.0 ft		
Equipment	12156883	EL.RENO, OK	
Recorded By	WHITLOCK		
Witnessed By	KITT NOAH		
COMPANY	RUSSELL OIL, INC.		
WELL	ROHLEDER TRUST #28-1		
FIELD/BLOCK	WILDCAT		
COUNTY	LOGAN		
STATE	KANSAS		
API No.	15-109-21591-00-00		
Location	(SHL) SE SE NW NW 1105 FNL & 1090 FWL		
Sect.	28	Twp. 11S	Rge. 32W
Other Services:	ACRT SDL-DSN MICLOG		

Fold here

Service Ticket No.: 905677175				API No.: 15-109-21591-00-00				PGM Version: WL INSITE R6.0.8 (Build 3)											
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES													
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole												
Depth-Driller																			
Type Fluid in Hole																			
Density	Viscosity																		
Ph	Fluid Loss																		
Source of Sample						RESISTIVITY EQUIPMENT DATA													
Rm @ Meas. Temp	@	@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other											
Rmf @ Meas. Temp.	@	@																	
Rmc @ Meas. Temp.	@	@																	
Source Rmf	Rmc																		
Rm @ BHT	@	@																	
Rmf @ BHT	@	@																	
Rmc @ BHT	@	@																	
EQUIPMENT DATA																			
GAMMA				ACOUSTIC				DENSITY				NEUTRON							
Run No.				Run No.				Run No.				Run No.							
Serial No.				Serial No.				Serial No.				Serial No.							
Model No.				Model No.				Model No.				Model No.							
Diameter				No. of Cent.				Diameter				Diameter							
Detector Model No.				Spacing				Log Type				Log Type							
Type								Source Type				Source Type							
Length				LSA [Y/N]				Serial No.				Serial No.							
Distance to Source				FWDA [Y/N]				Strength				Strength							
LOGGING DATA																			
GENERAL				GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix					
No.	From	To	ft/min	L	R	L	R		L	R		L	R						

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: 5 1/2" CASING USED FOR ANNULAR HOLE VOLUME

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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Plot Time: 05-May-19 03:49:16

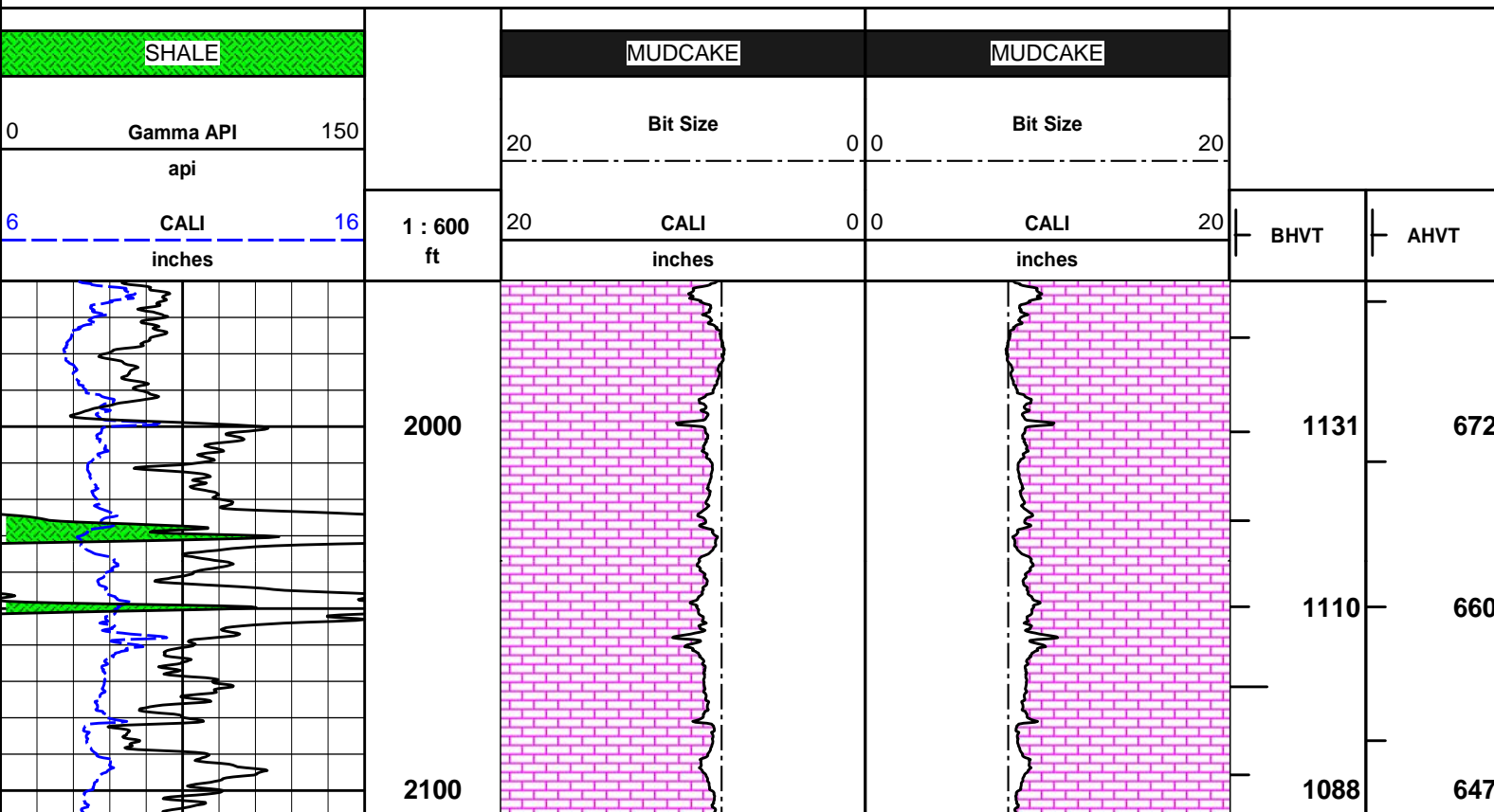
Plot Range: 1960 ft to 4776.5 ft

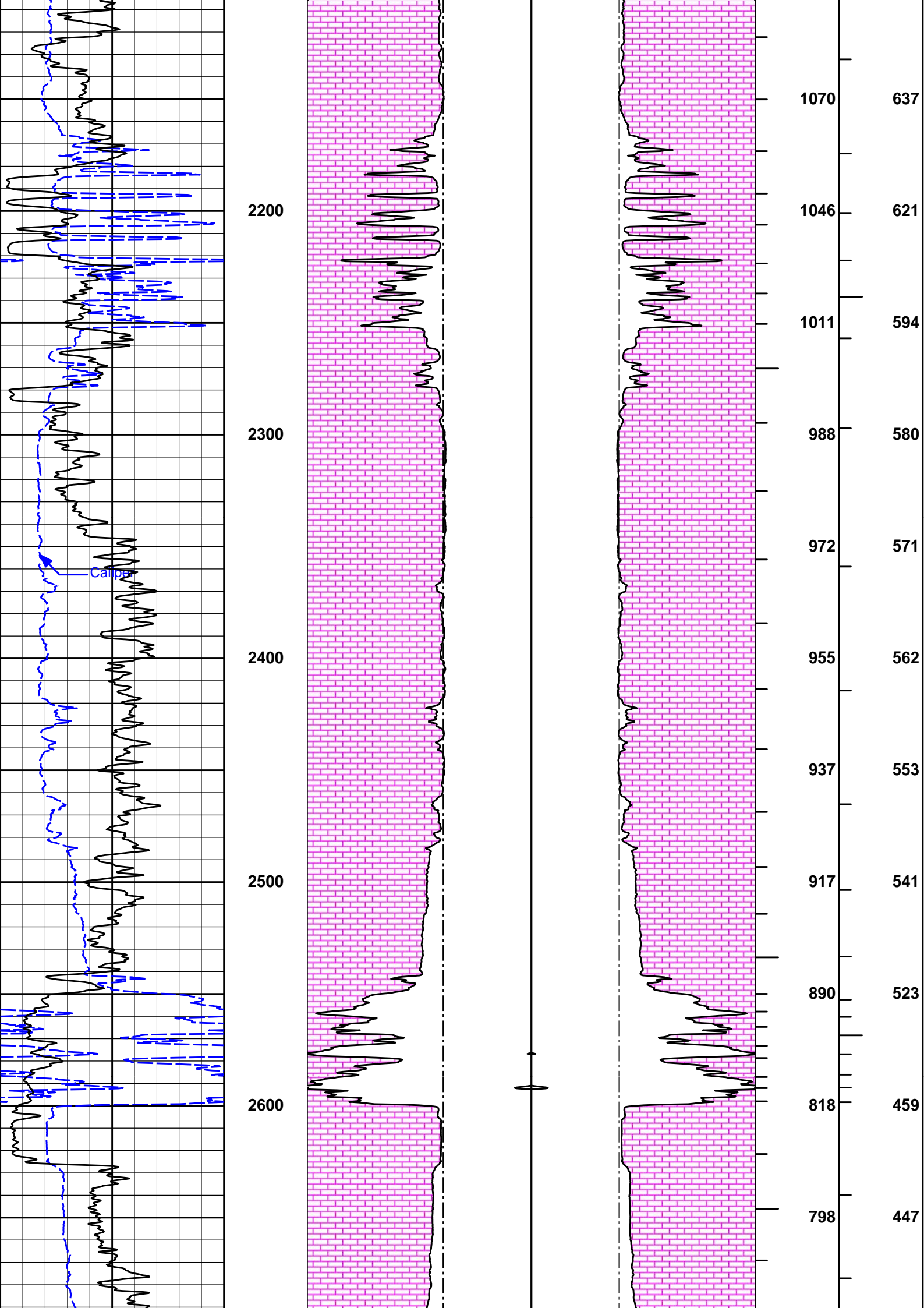
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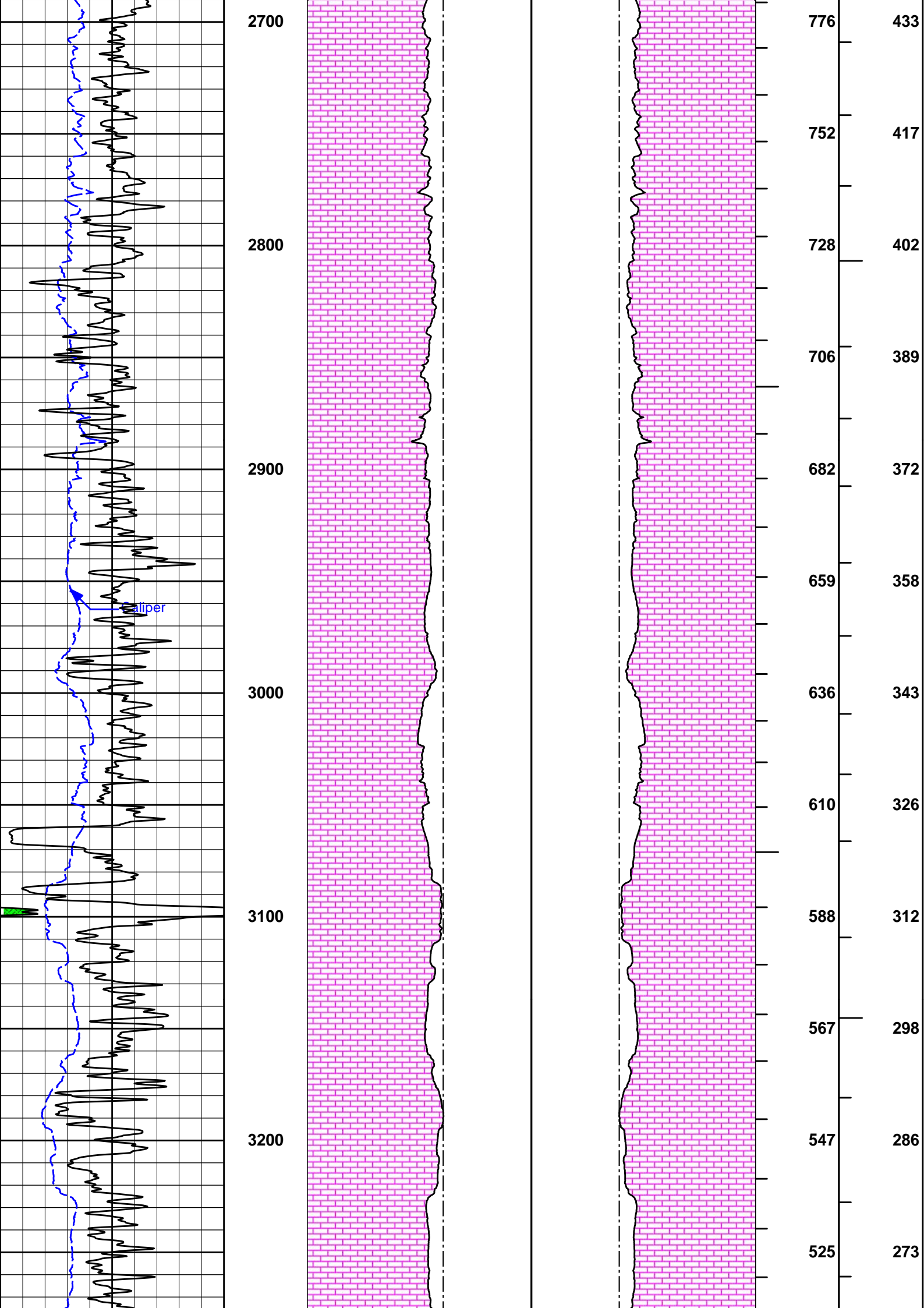
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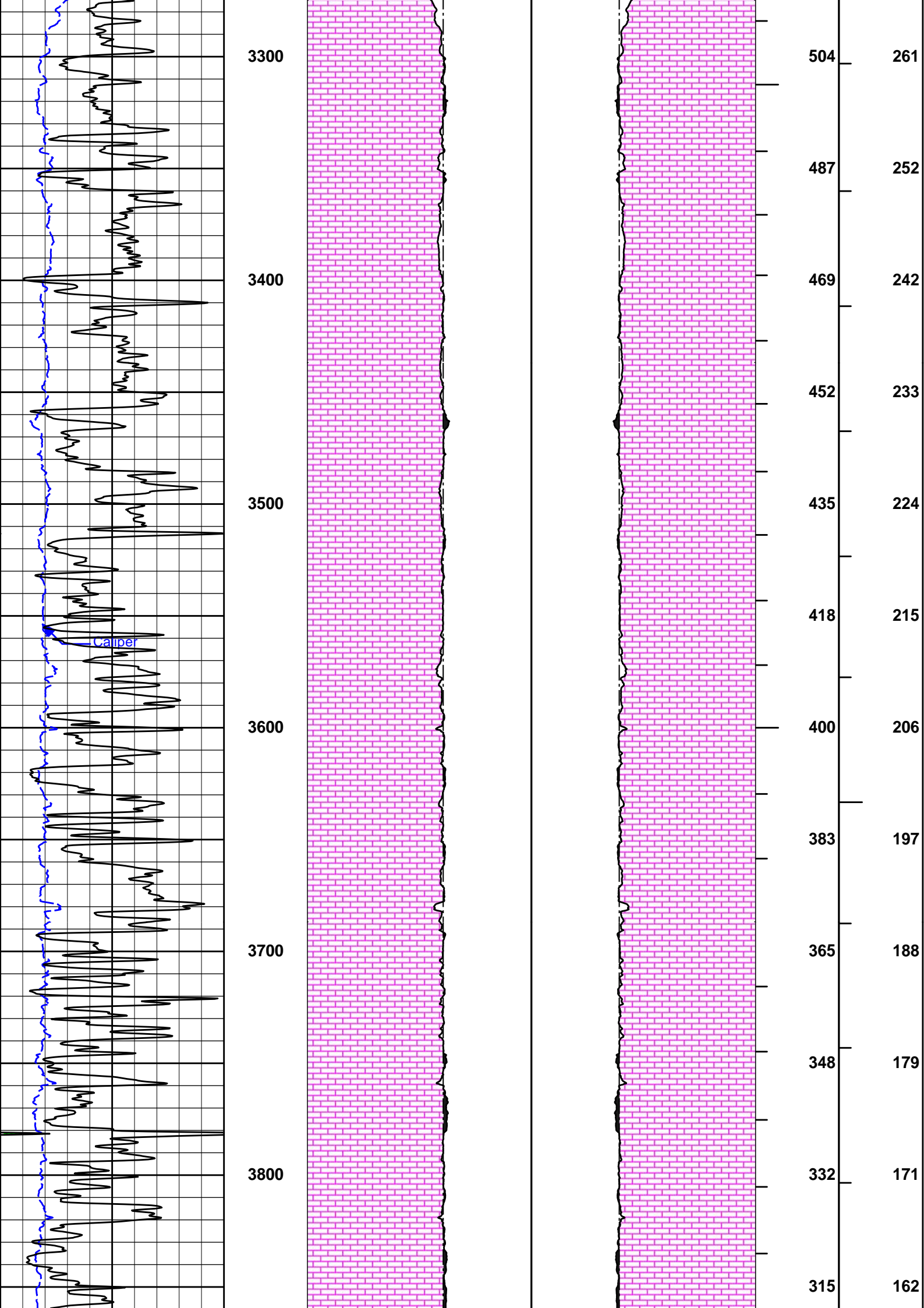
ANNULAR HOLE VOLUME PLOT

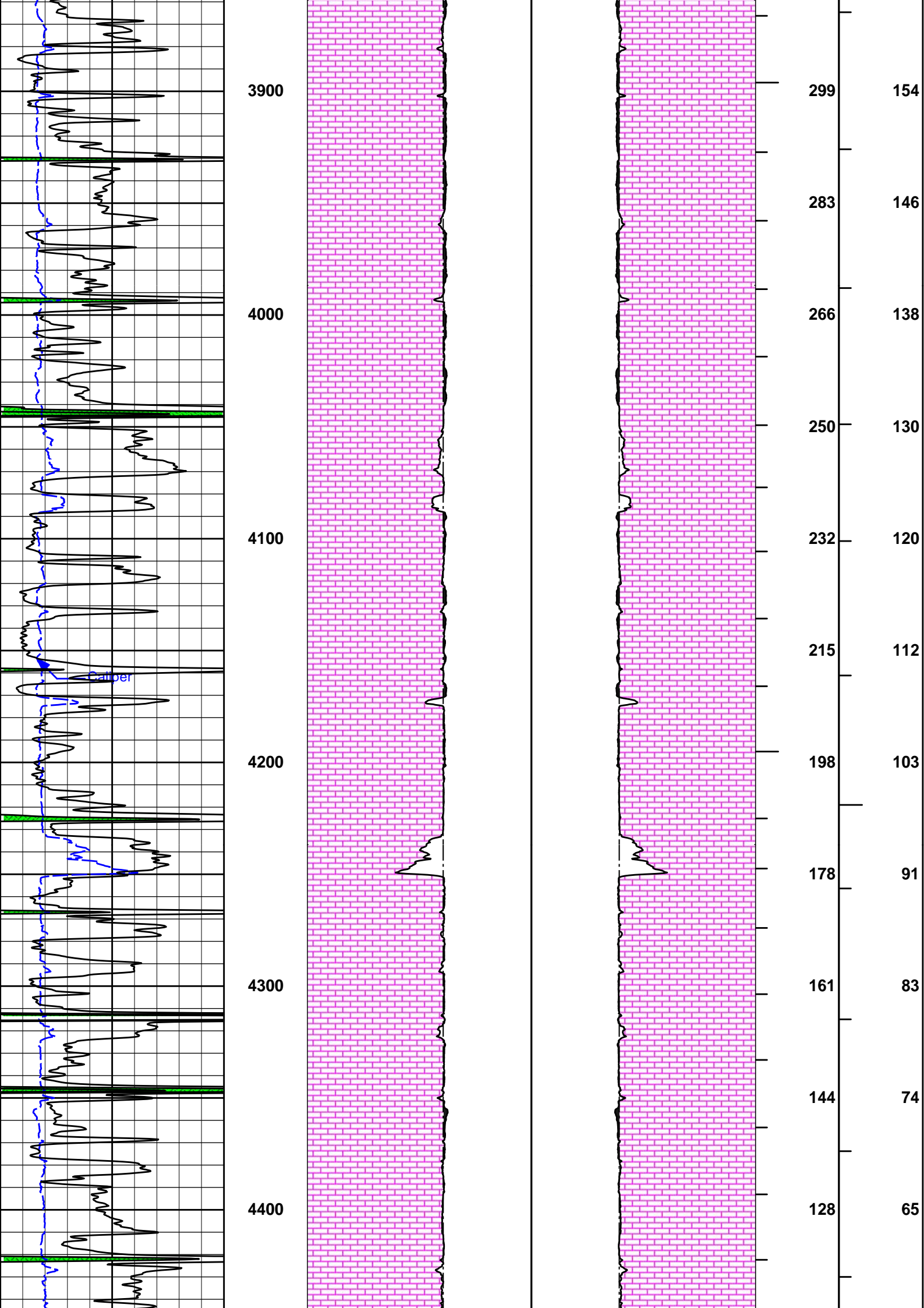
AHV PLOT CALCULATED FOR 5 1/2" CASING

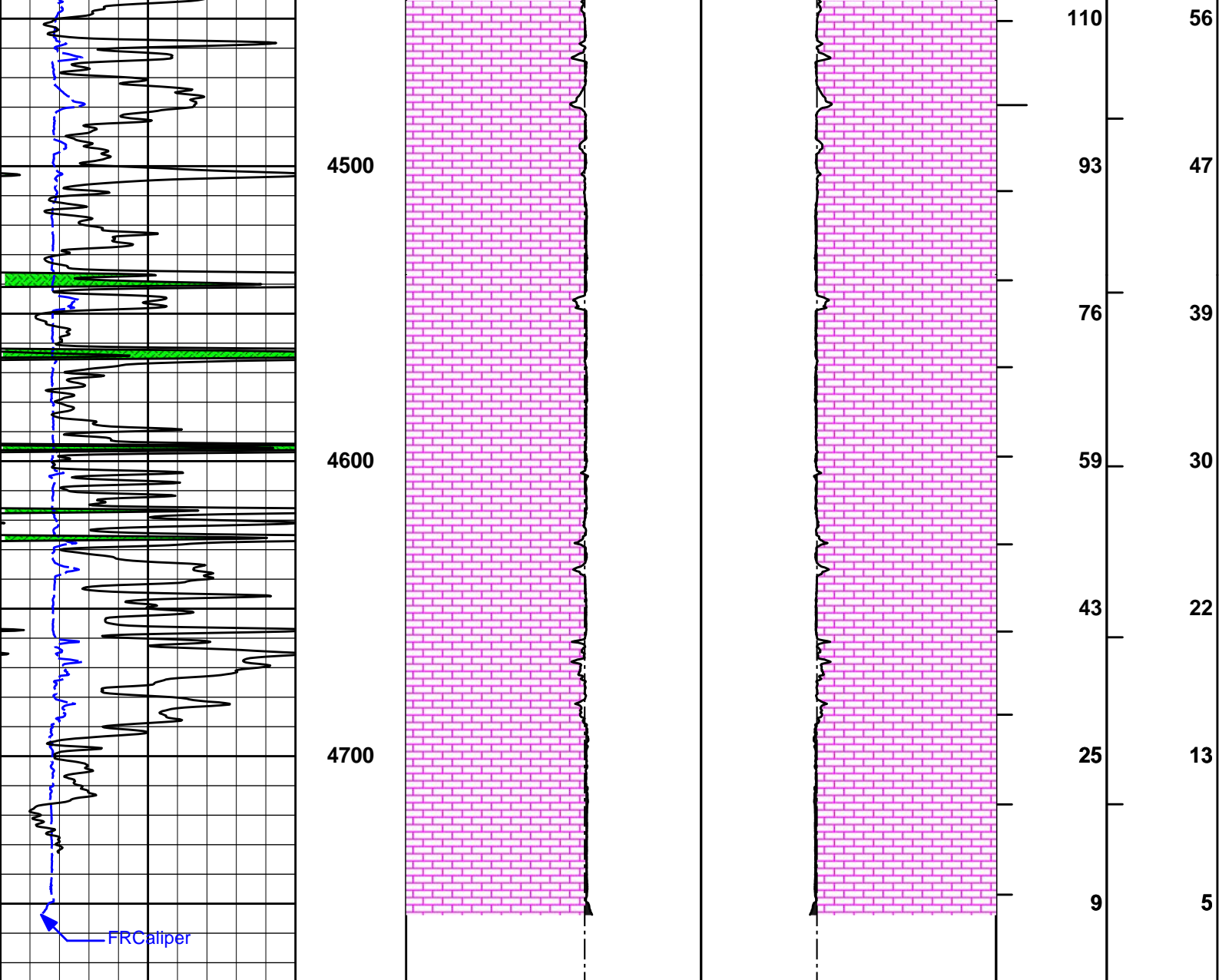












6	CALI	16	1 : 600 ft	20	CALI	0 0	20	BHVT	AHVT
	inches					inches			
0	Gamma API	150		20	Bit Size	0 0	20		
	api								
SHALE				MUDCAKE		MUDCAKE			

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ANNULAR HOLE VOLUME PLOT

AHV PLOT CALCULATED FOR 5 1/2" CASING